

PCT

REC'D 07 MAR 2005

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 101281-1W0	FOR FURTHER ACTION <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. PCT/SE 2004/001590	International filing date (day/month/year) 3 November 2004	(Earliest) Priority Date (day/month/year) 7 November 2003
Applicant ASTRAZENECA ABet a1		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 6 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☒ Certain claims were found unsearchable (see Box No. II)

3. ☐ Unity of invention is lacking (see Box No. III)

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

PREPARATION OF PHARMACEUTICAL SALTS OF [1,4]-
Bipiperidine

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 16
because they relate to subject matter not required to be searched by this Authority, namely:
See next sheet
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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Box II.2

Claim 16 relates to a method of treatment of the human or animal body by surgery or by therapy, as well as diagnostic methods /Rule 39.1(iv). Nevertheless, a search has been executed for this claim. The search has been based on the alleged effects of the compounds.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A61K 31/445, A61K 31/4745, A61P 37/00, C07D 409/14, C07D 401/04, A61P 11/06
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A61K, C07D, A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 9724324 A1 (JANSSEN PHARMACEUTICA N.V.), 10 July 1997 (10.07.1997), formula I --	1-32
X	WO 0177101 A1 (ASTRAZENECA AB), 18 October 2001 (18.10.2001), formula I --	1-32
X	WO 03004487 A1 (ASTRAZENECA AB), 16 January 2003 (16.01.2003), formula I --	1-32
A	WO 9806697 A1 (SCHERING CORPORATION), 19 February 1998 (19.02.1998), formula I --	1-32

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
 "E" earlier application or patent but published on or after the international filing date
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
 "O" document referring to an oral disclosure, use, exhibition or other means
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

2 March 2005

Date of mailing of the international search report

03 -03- 2005

Name and mailing address of the ISA/
 Swedish Patent Office
 Box 5055, S-102 42 STOCKHOLM
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International application No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 0192227 A1 (ASTRAZENECA AB), 6 December 2001 (06.12.2001), formula I --	1-32
A	US 6387930 B1 (BAROUDY ET AL), 14 May 2002 (14.05.2002), formula I --	1-32
A	WO 0066559 A1 (SCHERING CORPORATION), 9 November 2000 (09.11.2000), formula I -- -----	1-32

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				AU	1308497	A	28/07/1997
				BR	9612334	A	02/03/1999
				CA	2238818	A	10/07/1997
				CN	1131854	B,C	24/12/2003
				CN	1206406	A	27/01/1999
				CZ	9801864	A	16/12/1998
				DE	69615700	D,T	05/09/2002
				DK	855999	T	21/01/2002
				EA	1559	B	00/00/0000
				EP	0855999	A,B	05/08/1998
				SE	0855999	T3	
				ES	2164939	T	01/03/2002
				HK	1011205	A	00/00/0000
				HU	9904125	A	28/06/2000
				IL	124640	A	23/05/2002
				JP	2000502690	T	07/03/2000
				NO	310913	B	17/09/2001
				NO	982404	A	19/08/1998
				NZ	325843	A	28/05/1999
				PL	327441	A	07/12/1998
				PT	855999	T	28/03/2002
				SI	855999	T	00/00/0000
				SK	83198	A	11/02/1999
				SK	283555	B	11/09/2003
				TR	9801211	T	00/00/0000
				TW	531537	B	00/00/0000
				US	6169097	B	02/01/2001
				US	6346540	B	12/02/2002
				ZA	9610885	A	23/06/1998

WO	0177101	A1	18/10/2001	AU	4699701	A	23/10/2001
				BR	0109922	A	18/02/2003
				CA	2403012	A	18/10/2001
				CN	1433411	T	30/07/2003
				EP	1274701	A	15/01/2003
				EP	1493743	A	05/01/2005
				GB	0008626	D	00/00/0000
				IL	151889	D	00/00/0000
				JP	2003530393	T	14/10/2003
				MX	PA02009885	A	27/03/2003
				NO	20024774	A	29/11/2002
				NZ	521543	A	29/10/2004
				US	6525070	B	25/02/2003
				US	20020077337	A	20/06/2002
				US	20040006080	A	08/01/2004
				US	20040014783	A	22/01/2004
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				EP	1404667	A	07/04/2004
				GB	0116179	D	00/00/0000
				HU	0401886	A	28/12/2004
				IL	159256	D	00/00/0000
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				NO	20035729	D	00/00/0000
				US	20040235894	A	25/11/2004
				GB	0123037	D	00/00/0000

WO	9806697	A1	19/02/1998	AU	732096	B	12/04/2001
				AU	3973297	A	06/03/1998
				BR	9711061	A	17/08/1999
				CA	2263167	A	19/02/1998
				CN	1232453	A	20/10/1999
				CZ	9900433	A	14/07/1999
				EP	0922029	A	16/06/1999
				HU	9904363	A	28/11/2000
				IL	128524	D	00/00/0000
				JP	3390179	B	24/03/2003
				JP	2000500786	T	25/01/2000
				KR	2000029976	A	25/05/2000
				NO	990671	A	15/04/1999
				NZ	334017	A	28/04/2000
				PL	331536	A	19/07/1999
				SK	20199	A	13/03/2000
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				EP	1289956	A	12/03/2003
				GB	0013060	D	00/00/0000
				JP	2003535079	T	25/11/2003
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				CA	2371587	A	09/11/2000
				CN	1349504	T	15/05/2002
				CZ	20013941	A	17/04/2002
				EP	1175402	A	30/01/2002
				HU	0203522	A	28/02/2003
				IL	145742	D	00/00/0000
				JP	2002543186	T	17/12/2002
				NO	20015365	A	03/01/2002
				NZ	514675	A	28/05/2004
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				ZA	200108867	A	27/01/2003